



STIC Search Report

EIC 2100

STIC Database Tracking Number: 163966

TO: Quoc A Tran
Location: RND 3A60
Art Unit : 2176
Friday, August 26, 2005

Case Serial Number: 09/738208

From: Carol Wong
Location: EIC 2100
RND 4A30
Phone: 272-3513

carol.wong@uspto.gov

Search Notes

Dear Examiner Tran,

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case. Due to the 3-hr F&F time limitation, only the patent files have been searched. Pls submit another request if you wish the NPL files searched.

Please call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks,
Carol

File 347:JAPIO Nov 1976-2005/Apr(Updated 050801)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200554

(c) 2005 Thomson Derwent

File 344:Chinese Patents Abs Aug 1985-2005/May

(c) 2005 European Patent Office

File 371:French Patents 1961-2002/BOPI 200209

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Set	Items	Description
S1	2850959	ARTICLE? ? OR DOCUMENT? ? OR MANUSCRIPT? OR PUBLICATION? OR TEXT? ? OR TEXTUAL OR REPORT? ? OR PARAGRAPH? OR SENTENCE? OR CONTENT? ?
S2	1684350	ECONTENT? ? OR RECORD? ? OR DATAFILE? OR PAGE? ? OR COMPOSITION? ? OR LITERARY OR ESSAY? ? OR SCRIPT? ? OR MESSAGE?
S3	393305	RECORD? ?
S4	62682	S1:S3(3N) (PRUN???? ? OR REDN? OR REDUC????? ? OR ABRIDG? OR CONDENS? OR PRECIS OR SYNOPSI? OR CAPSUL? OR RECAP? ? OR BRIEF?? ?)
S5	4804	S1:S3(3N) (TRIMM??? ? OR TRIM??? ? OR DIGEST? ? OR ABSTRACT? ? OR SUMMARY? OR SUMMARIES OR SUMMATION? OR SHORTEN? OR SHORTER?)
S6	275	S1:S3(3N) ABBREVIAT?
S7	263911	ORIGINAL? ? OR GENUINE? ? OR PROTOTYP? OR ARCHETYP? OR URT-EXT? OR ANTETYP?
S8	22263	S1:S3(3N) S7
S9	551035	ANALYS? OR ANALYZ? OR ANALYT? OR EVALUAT? OR ASSESS? OR REVIEW?
S10	436047	APPRAIS? OR JUDGE????? ? OR JUDG????? ? OR INSPECT?
S11	74626	EXAMIN?
S12	648	S8(5N) S9:S11
S13	402	S4:S6(5N) S9:S11
S14	910984	COMPARISON? OR COMPAR???? ? OR COMPARAT?
S15	91543	S14(3N) (RATIO OR RATIOS OR VALUE OR VALUES OR MULTIVALUE? - OR WEIGHT? ?)
S16	6829	S14(3N) (NUMERIC?? ? OR PARAMET? OR FORMULA?)
S17	41339	S14(3N) (LEVEL? ? OR CRITERIA? OR CRITERION? OR LIMIT? ? OR NORM? ? OR RULE? ? OR BOUND? ? OR RANGE? ? OR BASELINE? OR BASE()LINE? ?)
S18	18630	S14(3N) (THRESHOLD? OR BENCHMARK? OR BENCH()MARK? ? OR YARD-STICK? OR YARD()STICK? ? OR TOUCHSTONE? OR TOUCH()STONE? ?)
S19	2576	S1:S3(3N) MASTER OR MODEL(1W) S1:S3
S20	74	S19(5N) S9:S11
S21	5	S13 AND (S12 OR S20)
S22	495	(S8 OR S19) (15N) S4:S6
S23	15	S22(15N) S14
S24	406	(S8 OR S19) (5N) S14
S25	9	S24(10N) S4:S6
S26	625	S4:S6(5N) S14
S27	7	S26(10N) (S8 OR S19)
S28	9105	S14(5N) (S7 OR MASTER OR MODEL)
S29	32	S28(10N) S4:S6
S30	625	S14(5N) S4:S6
S31	18	S30(10N) (S7 OR MASTER OR MODEL)
S32	44	S21 OR S23 OR S25 OR S27 OR S29 OR S31
S33	44	IDPAT (sorted in duplicate/non-duplicate order)
S34	44	IDPAT (primary/non-duplicate records only)
S35	2	S34 AND AC=US/PR
S36	0	S35 AND AY=(1970:2000)/PR
S37	37	S34 AND PY=1970:2000
S38	1098521	PROPORTION? ? OR PERCENT? OR RATIO OR RATIOS

S39	9	S22 (15N) S38
S40	9	S39 NOT S32
?		

? t37/9/2,4

37/9/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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05401825 **Image available**
INFORMATION PROCESSOR AND ITS METHOD

PUB. NO.: 09-016625 [JP 9016625 A]
PUBLISHED: January 17, 1997 (19970117)
INVENTOR(s): SHIBATA SHOGO
HIROTA MAKOTO
ITO SHIRO
UEDA TAKANARI
IKEDA YUJI
FUJITA MINORU
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 07-185072 [JP 95185072]
FILED: June 29, 1995 (19950629)
INTL CLASS: [6] G06F-017/30; G06F-017/27
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)
JAPIO KEYWORD:R011 (LIQUID CRYSTALS)

ABSTRACT

PURPOSE: To enable a person having read summary or a keyword to easily grasp the position of the read contents in an original.

CONSTITUTION: This information processor is provided with an original storing part 1 for storing an inputted document, a summary storing part 2 for storing the summary of the document stored in the storing part 1, a keyword storing part 3 for storing a keyword in the document stored in the storing part 1, a sentence display judging part 4 for judging a display method for each sentence, a word display judging part 5 for judging a display method for each word, and a display part 6 for displaying a sentence in accordance with the judged results or respective display judging parts 4, 5. The **original** is **compared** with the **summary** in each **sentence**, and at the time of judging that the summary is included in the original, the display method of respective parts in each sentence can be changed. At the time of detecting that the keyword is included in a sentence, the display method of the keyword part is changed. When a normal sentence is displayed by a light gray, a summary is displayed by black and a keyword is obliquely displayed with an underline for instance, which part the summary or the keyword is written in can be detected at a glance.

37/9/4 (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

04889773 **Image available**
DOCUMENT INFORMATION RETRIEVAL DEVICE AND DOCUMENT RETRIEVAL RESULT DISPLAY METHOD

PUB. NO.: 07-182373 [JP 7182373 A]
PUBLISHED: July 21, 1995 (19950721)
INVENTOR(s): SUMITA KAZUO
MIIKE SEIJI
ONO KENJI
TAKEBAYASHI YOICHI

TAKEDA KIMITO
ITO ETSUO
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 05-351276 [JP 93351276]
FILED: December 29, 1993 (19931229)
INTL CLASS: [6] G06F-017/30
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)

ABSTRACT

PURPOSE: To provide a document information retrieval device with which a user can easily understand the contents of a document retrieved and speedily decide whether or not the contents are necessary, by not displaying a retrieval result in the form of its original sentence, but displaying a summary sentence at a viewpoint that the user desires.

CONSTITUTION: This device has a retrieval process part 3 which retrieves a document according to a retrieval word, a summary sentence generation part 7 which generates the summary sentence of the retrieval result, and an individual information storage part 9 which stores information on the correspondence between the generated summary sentence and original sentence. Therefore, the summary sentence generated according to the viewpoint that the user desires is displayed as the retrieval result, so the user can easily decide whether or not the retrieval result is necessary. **Summary sentences** which were **analyzed** once, are stored while being made to correspond to **original** sentences, so a process for **analyzing a summary sentence** again can be omitted.

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File 347:JAPIO Nov 1976-2005/Apr(Updated 050801)
 (c) 2005 JPO & JAPIO
 File 350:Derwent WPIX 1963-2005/UD,UM &UP=200554
 (c) 2005 Thomson Derwent
 File 348:EUROPEAN PATENTS 1978-2005/Aug W02
 (c) 2005 European Patent Office
 File 349:PCT FULLTEXT 1979-2005/UB=20050825,UT=20050818
 (c) 2005 WIPO/Univentio
 File 324:German Patents Fulltext 1967-200533
 (c) 2005 Univentio
 File 371:French Patents 1961-2002/BOPI 200209
 (c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	65	AU=MILTON J?
S2	5703248	ARTICLE? ? OR DOCUMENT? ? OR MANUSCRIPT? OR PUBLICATION OR TEXT? ? OR TEXTUAL OR REPORT? ? OR PARAGRAPH? OR SENTENCE? OR CONTENT? ?
S3	562071	ECONTENT? ? OR RECORD? ? OR DATAFILE
S4	595679	DATAFILE? OR PAGE? ?
S5	123254	(S2:S4 OR MESSAGE? ?) (3N) (PRUN???? ? OR REDN? OR REDUC????? ? OR ABRIDG? OR CONDENS? OR PRECIS OR SYNOPSI? OR CAPSUL? OR RECAP? ? OR BRIEF?? ?)
S6	36405	(S2:S4 OR MESSAGE? ?) (3N) (TRIM??? ? OR TRIM??? ? OR DIGES- T? ? OR ABSTRACT? ? OR SUMMARY? OR SUMMARIES OR SUMMATION? OR SHORTEN? OR SHORTER?)
S7	39524	(S2:S4 OR MESSAGE? ?) (3N) (ABBREVIAT? OR SHRINK? OR SHRUNK? OR COMPACT? OR DECREAS? OR DECREM?)
S8	2780501	S2-S7/TI,AB,CM
S9	15	S1 AND S8

9/9/1 (Item 1 from file: 347)
 DIALOG(R)File 347:JAPIO
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07647160 **Image available**
 SYSTEM AND METHOD FOR GENERATING AND DISTRIBUTING PUBLICATION

PUB. NO.: 2003-141014 [JP 2003141014 A]
 PUBLISHED: May 16, 2003 (20030516)
 INVENTOR(s): LEE EDWARD O
 MESSNER AMY E
 JUSTICE TIMOTHY P
 MILTON JOHN R
 APPLICANT(s): HEWLETT PACKARD CO (HP)
 APPL. NO.: 2002-199411 [JP 2002199411]
 FILED: July 09, 2002 (20020709)
 PRIORITY: 01 915982 [US 2001915982], US (United States of America),
 July 25, 2001 (20010725)
 INTL CLASS: G06F-013/00; G06F-017/60

ABSTRACT

PROBLEM TO BE SOLVED: To provide a system and method for formatting a publication .
 SOLUTION: This system comprises a processor connected to a local interface and a memory connected to the local interface. Publication distribution logic is stored in a memory and executed by the processor. The publication distribution logic comprises logic for associating content items with a publication in a server and logic for discriminating a presentation

platform from a number of potential presentation platforms. The **publication** distribution logic further comprises logic for generating an output file in the server including the **content** item in a digital format recognizable by the presentation platform.

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9/9/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

016615845 **Image available**
WPI Acc No: 2004-774580/200476
XRPX Acc No: N04-610196

Electronic publication formatting method used for information dissemination, involves generating instance file which specifies number of content items and associates corresponding sub-template with each content item

Patent Assignee: COGAN D (COGA-I); MILTON J R (MILT-I)

Inventor: COGAN D; MILTON J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040205609	A1	20041014	US 2001896567	A	20010628	200476 B

Priority Applications (No Type Date): US 2001896567 A 20010628

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20040205609	A1	15	G06F-015/00	

Abstract (Basic): US 20040205609 A1

NOVELTY - Several **content** items are associated with corresponding number of sub-templates. An instance file which specifies a number of **content** items and associates a respective one of the selected sub-templates with each of **content** item, is generated.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for system formatting **publication**.

USE - For formatting electronic publications distributed to user terminal, such as personal computer, Palm Pilot computer **pager**, cellular telephone, personal appliance, personal digital assistant (PDA) or other mobile device, through network e.g. internet, local area network (LAN), wireless network or wide area network (WAN).

ADVANTAGE - Increases the flexibility of formatting electronic publications, while reducing number of templates required for formatting. Avoids the need for separate templates for each possible combination of different types of **content** items

DESCRIPTION OF DRAWING(S) - The figure shows a functional block diagram of the work flow employed in the **publication** distribution.
pp; 15 DwgNo 3/8

Title Terms: ELECTRONIC; PUBLICATION; FORMAT; METHOD; INFORMATION;
DISSEMINATE; GENERATE; INSTANCE; FILE; SPECIFIED; NUMBER; CONTENT; ITEM;
ASSOCIATE; CORRESPOND; SUB; TEMPLATE; CONTENT; ITEM

Derwent Class: T01

International Patent Class (Main): G06F-015/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-J11C; T01-N01D2; T01-N03B

9/9/3 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015357686 **Image available**
WPI Acc No: 2003-418624/200339
XRPX Acc No: N03-334021

Content item placement tracking method for publication involves
generating placement report to log position of content item in
publication , after determining position of content item in
publication

Patent Assignee: MILTON J R (MILT-I)

Inventor: MILTON J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030041303	A1	20030227	US 2001938465	A	20010823	200339 B

Priority Applications (No Type Date): US 2001938465 A 20010823

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030041303	A1	12	G06F-007/00	

Abstract (Basic): US 20030041303 A1

NOVELTY - A placement tag associated with an **content** item (169) in a computer is detected and corresponding placement position of **content** item in the **publication** (166) is determined. A placement **report** (146) is generated to log the determined position of **content** item within the **publication** .

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) computer readable medium storing **content** item placement tracking program; and
(2) placement tracking system.

USE - For tracking placement of advertisements, **articles** and other **contents** in magazine and newspaper.

ADVANTAGE - The placement of various **content** items within the **publication** is tracked accurately for properly calculating revenues.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the placement tracking process.

placement **report** (146)

publication (166)

content item (169)

pp; 12 DwgNo 1/5

Title Terms: CONTENT; ITEM; PLACE; TRACK; METHOD; PUBLICATION; GENERATE;
PLACE; REPORT; LOG; POSITION; CONTENT; ITEM; PUBLICATION; AFTER;

DETERMINE; POSITION; CONTENT; ITEM; PUBLICATION

Derwent Class: T01; T04; T05

International Patent Class (Main): G06F-007/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-S03; T04-G04; T05-G02B1

1 9/9/4 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015357547 **Image available**
WPI Acc No: 2003-418485/200339
XRPX Acc No: N03-333882

Internet-based personalized publications creating method involves

printing content items in at least one region of publication in computer system, in order corresponding to priority associated with each content item

Patent Assignee: MILTON J R (MILT-I)

Inventor: MILTON J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030040926	A1	20030227	US 2001938705	A	20010823	200339 B

Priority Applications (No Type Date): US 2001938705 A 20010823

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030040926	A1	11	G06F-017/60	

Abstract (Basic): US 20030040926 A1

NOVELTY - The method involves associating a priority with each of the content items or articles to be printed into at least one region of the publication in a computer system. The region is then printed with the content items in an order corresponding to the associated priority.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) program for creating personalized publications; and
- (2) personalized publications creation system.

USE - For creating personalized publications through Internet.

ADVANTAGE - Allows readers to state personal preferences regarding type of material they want to read. Also, any number of counters, state variables, warning semaphores or messages can be added for purposes of enhanced utility, accounting, performance measurement, or providing troubleshooting aids, etc.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a publication distribution network.

pp; 11 DwgNo 1/4

Title Terms: BASED; PERSON; PUBLICATION; METHOD; PRINT; CONTENT; ITEM; ONE; REGION; PUBLICATION; COMPUTER; SYSTEM; ORDER; CORRESPOND; PRIORITY; ASSOCIATE; CONTENT; ITEM

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

Manual Codes (EPI/S-X): T01-C05A; T01-J11B; T01-N01A2A; T01-S03

9/9/5 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015301376 **Image available**

WPI Acc No: 2003-362310/200334

XRPX Acc No: N03-289349

Content item relaying method for data communication system, involves in transmitting stored content item from content relay server to one of several recipient device that is selected based on predefined priority

Patent Assignee: DURLAND C (DURL-I); JUSTICE T P (JUST-I); LEE E O (LEEE-I); MESSNER A E (MESS-I); MILTON J R (MILT-I)

Inventor: DURLAND C; JUSTICE T P; LEE E O; MESSNER A E; MILTON J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030021405	A1	20030130	US 2001916041	A	20010725	200334 B

Priority Applications (No Type Date): US 2001916041 A 20010725

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 20030021405 A1 12 H04M-003/00

Abstract (Basic): US 20030021405 A1

NOVELTY - The **content** item received from a sending device (136), in a specific format is stored in a memory (146) of a **content** relay server (103). The selected one of several recipient devices is identified according to predefined priority for receiving the **content**. The **content** item from the **content** relay server, is transmitted to the selected recipient device.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for **content** item relaying system.

USE - For relaying **content** item in data communication system in telecommunication network e.g. public switched telephone network (PSIN), digital telephone network, cellular telephone network or other networks.

ADVANTAGE - The **content** item is provided to the selected recipient so that the **content** item effectively reaches the individual to whom it is directed. The **content** item is forwarded to the recipient located anywhere.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the communication network.

content relay server (103)
sending device (136)
memory (146)
pp; 12 DwgNo 1/5

Title Terms: CONTENT; ITEM; RELAY; METHOD; DATA; COMMUNICATE; SYSTEM;
TRANSMIT; STORAGE; CONTENT; ITEM; CONTENT; RELAY; SERVE; ONE; RECIPIENT;
DEVICE; SELECT; BASED; PREDEFINED; PRIORITY

Derwent Class: T01; W01

International Patent Class (Main): H04M-003/00

International Patent Class (Additional): H04M-011/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-N01C; T01-N01D; T01-N02A3B; W01-A06E1; W01-A07G
; W01-C05B4

9/9/6 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015142728 **Image available**

WPI Acc No: 2003-203255/200320

XRPX Acc No: N03-161933

**Formatting publication by associating presentation platforms and
searching content database for content item**

Patent Assignee: HEWLETT-PACKARD CO (HEWP); JUSTICE T P (JUST-I); LEE E O
(LEEE-I); MESSNER A E (MESS-I); MILTON J R (MILT-I)

Inventor: JUSTICE T P; LEE E O; MESSNER A E; **MILTON J R**

Number of Countries: 032 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1280076	A2	20030129	EP 2002254754	A	20020708	200320 B
US 20030023636	A1	20030130	US 2001915982	A	20010725	200320
JP 2003141014	A	20030516	JP 2002199411	A	20020709	200341

Priority Applications (No Type Date): US 2001915982 A 20010725

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
EP 1280076 A2 E 14 G06F-017/30
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
US 20030023636 A1 G06F-015/00
JP 2003141014 A 14 G06F-013/00

Abstract (Basic): EP 1280076 A2

NOVELTY - Method consists in associating a **content** item with a **publication** in the server, identifying a presentation platform by parsing the received **publication** request and generating an output file including the **content** item in a digital format recognisable by the presentation platform. The **content** item is associated with a **publication** by identifying the **publication** identifier and searching a **content** database.

DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for a system for formatting a **publication**.

USE - Method is for generating and distributing a **publication** via the Internet.

DESCRIPTION OF DRAWING(S) - The figure shows a publishing network.
pp; 14 DwgNo 1/6

Title Terms: FORMAT; PUBLICATION; ASSOCIATE; PRESENT; PLATFORM; SEARCH;
CONTENT; DATABASE; CONTENT; ITEM

Derwent Class: T01

International Patent Class (Main): G06F-013/00; G06F-015/00; G06F-017/30

International Patent Class (Additional): G06F-017/60

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B; T01-N01D

9/9/7 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014985847 **Image available**

WPI Acc No: 2003-046362/200304

XRFX Acc No: N03-036544

Extensible markup language document creation method for computer, involves invoking extensible style sheet language transformation engine to produce multiple viewable output pages

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: DAVIS P E; DEAN S E; MELIKSETIAN D S; MILTON J ; WEITZMAN L;
ZHOU N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020133516	A1	20020919	US 2000747871	A	20001222	200304 B

Priority Applications (No Type Date): US 2000747871 A 20001222

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 20020133516 A1 29 G06F-017/24

Abstract (Basic): US 20020133516 A1

NOVELTY - An XML **document** is defined based on the reusable **content** objects including relationship with another **content** object comprising self-contained fragment. An aggregate XML **document** is formed, which represents a self-contained accumulation of the object in accordance with the relationship. An extensible style sheet language

(XSL) transformation engine is invoked to produce multiple viewable output **pages** in HTML.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Information processing system; and

(2) Computer-readable medium storing XML **document** creation program.

USE - For publishing XML **document** on network for computer, PDA, cell phone, etc.

ADVANTAGE - Prevents **publication** of the **pages** with broken hypertext lines and provides data consistency and data integrity in **content** management.

DESCRIPTION OF DRAWING(S) - The figure shows a functional block diagram of the publishing system using XML.

pp; 29 DwgNo 10/13

Title Terms: EXTEND; LANGUAGE; DOCUMENT; CREATION; METHOD; COMPUTER; INVOKE
; EXTEND; STYLE; SHEET; LANGUAGE; TRANSFORM; ENGINE; PRODUCE; MULTIPLE;
VIEW; OUTPUT; PAGE

Derwent Class: T01

International Patent Class (Main): G06F-017/24

File Segment: EPI

Manual Codes (EPI/S-X): T01-F07; T01-J11B; T01-J11C1; T01-S03

9/9/8 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014796677 **Image available**

WPI Acc No: 2002-617383/200266

XRPX Acc No: N02-488582

Original article pruning system for newspaper publication processing system, executes article pruning logic to automatically reduce article length so that article is published within predefined allocated space

Patent Assignee: MILTON J R (MILT-I)

Inventor: **MILTON J R**

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020078096	A1	20020620	US 2000738208	A	20001215	200266 B

Priority Applications (No Type Date): US 2000738208 A 20001215

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020078096	A1		9 G06F-017/27	

Abstract (Basic): US 20020078096 A1

NOVELTY - An **article pruning** logic stored in a memory of a processor circuit is executed by a processor to automatically reduce length of an original **article**, such that the **article** is published within a predefined allocated space in the newspaper.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for original **article pruning** method.

USE - For **pruning** original **document** in **publication** processing system e.g. for newspaper, magazine, and other on-line **publication**.

ADVANTAGE - **Reduces** cost of **publication** by **reducing** length of the original **article** to predefined length thereby ensuring uniformity of the pruning copy.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of

original article pruning logic executed in the publication processing system.

pp; 9 DwgNo 3/3

Title Terms: ORIGINAL; ARTICLE; PRUNE; SYSTEM; NEWSPAPER; PUBLICATION; PROCESS; SYSTEM; EXECUTE; ARTICLE; PRUNE; LOGIC; AUTOMATIC; REDUCE; ARTICLE; LENGTH; SO; ARTICLE; PREDEFINED; ALLOCATE; SPACE

Derwent Class: T01

International Patent Class (Main): G06F-017/27

File Segment: EPI

Manual Codes (EPI/S-X): T01-J11A

9/TI/9 (Item 8 from file: 350)

DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Virtual inventory providing method for media contents e.g. music, games through Internet, involves associating several media contents that are owned by user, with user account maintained using device handle

9/TI/10 (Item 9 from file: 350)

DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Down draught spray booth, e.g. for spraying vehicles - has air inlet plenum chamber between housing and ceiling, with outlet for directing air downwardly into spray chamber so that greater flow of downwardly directed air is received than elsewhere

9/TI/11 (Item 10 from file: 350)

DIALOG(R)File 350:(c) 2005 Thomson Derwent. All rts. reserv.

Baking spray booth assembly - comprises outer walls and ceiling made of insulated panels, having joints between corners of panels to hold walls and ceiling together to provide self supporting construction

9/5/12 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2005 European Patent Office. All rts. reserv.

01535536

System and method for generating and distributing a publication
System und Methode zur Erzeugung und Verbreitung einer Veröffentlichung
Système et procede pour la generation et distribution d'une publication
PATENT ASSIGNEE:

Hewlett-Packard Company, (206037), 3000 Hanover Street, Palo Alto, CA 94304, (US), (Applicant designated States: all)

INVENTOR:

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LEGAL REPRESENTATIVE:

Jackson, Richard Eric et al (62281), Carpmaels & Ransford, 43 Bloomsbury Square, London WC1A 2RA, (GB)

PATENT (CC, No, Kind, Date): EP 1280076 A2 030129 (Basic)
EP 1280076 A3 050330

APPLICATION (CC, No, Date): EP 2002254754 020708;

PRIORITY (CC, No, Date): US 915982 010725

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 1280076 A2

A system and method for formatting a **publication** are provided. Broadly stated, the method comprises the steps of associating a **content** item with a **publication** in the server (103), identifying a presentation platform from a number of potential presentation platforms, and generating an output file (236) in the server (103) including the **content** item in a digital format recognizable by the presentation platform.

ABSTRACT WORD COUNT: 64

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030129 A2 Published application without search report

Search Report: 050330 A3 Separate publication of the search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200305	457
SPEC A	(English)	200305	5923
Total word count - document A			6380
Total word count - document B			0
Total word count - documents A + B			6380

9/TI/13 (Item 1 from file: 349)

DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

METHOD AND APPARATUS FOR CREATING AND MAINTAINING A VIRTUAL INVENTORY IN A
DISTRIBUTED NETWORK

PROCEDE ET APPAREIL POUR CREER ET CONSERVER UN STOCK VIRTUEL DANS UN RESEAU
DISTRIBUE

9/TI/14 (Item 2 from file: 349)

DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

DEHUMIDIFIER

SYSTEME DESHYDRATEUR

9/TI/15 (Item 3 from file: 349)

DIALOG(R)File 349:(c) 2005 WIPO/Univentio. All rts. reserv.

GAS INJECTOR FOR HYPOCHLOROUS ACID REACTOR

INJECTEUR DE GAZ POUR REACTEURS DE PRODUCTION D'ACIDE HYPOCHLOREUX

File 348:EUROPEAN PATENTS 1978-2005/Aug W02
(c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050825,UT=20050818
(c) 2005 WIPO/Univentio
File 324:German Patents Fulltext 1967-200533
(c) 2005 Univention

Set	Items	Description
S1	2877251	ARTICLE? ? OR DOCUMENT? ? OR MANUSCRIPT? OR PUBLICATION? OR TEXT? ? OR TEXTUAL OR REPORT? ? OR PARAGRAPH? OR SENTENCE? OR CONTENT? ?
S2	1258876	ECONTENT? ? OR RECORD? ? OR DATAFILE? OR PAGE? ? OR COMPOSITION? ? OR LITERARY OR ESSAY? ? OR SCRIPT? ? OR MESSAGE?
S3	170321	RECORD? ?
S4	108374	S1:S3(3N) (PRUN???? ? OR REDN? OR REDUC????? ? OR ABRIDG? OR CONDENS? OR PRECIS OR SYNOPSI? OR CAPSUL? OR RECAP? ? OR BRIEF?? ?)
S5	38766	S1:S3(3N) (TRIMM??? ? OR TRIM??? ? OR DIGEST? ? OR ABSTRACT? ? OR SUMMARY? OR SUMMARIES OR SUMMATION? OR SHORTEN? OR SHORTER?)
S6	2777	S1:S3(3N) ABBREVIAT?
S7	755440	ORIGINAL? ? OR GENUINE? ? OR PROTOTYP? OR ARCHETYP? OR URT-EXT? OR ANTETYP?
S8	257401	S1:S3(3N) S7
S9	902953	ANALYS? OR ANALYZ? OR ANALYT? OR EVALUAT? OR ASSESS? OR REVIEW?
S10	267198	APPRAIS? OR JUDGE????? ? OR JUDG????? ? OR INSPECT?
S11	1997098	EXAMIN?
S12	6374	S8(5N) S9:S11
S13	3112	S4:S6(5N) S9:S11
S14	1346103	COMPARISON? OR COMPAR???? ? OR COMPARAT?
S15	153172	S14(3N) (RATIO OR RATIOS OR VALUE OR VALUES OR MULTIVALUE? - OR WEIGHT? ?)
S16	27005	S14(3N) (NUMERIC?? ? OR PARAMET? OR FORMULA?)
S17	92452	S14(3N) (LEVEL? ? OR CRITERIA? OR CRITERION? OR LIMIT? ? OR NORM? ? OR RULE? ? OR BOUND? ? OR RANGE? ? OR BASELINE? OR BASE()LINE? ?)
S18	27505	S14(3N) (THRESHOLD? OR BENCHMARK? OR BENCH()MARK? ? OR YARD-STICK? OR YARD()STICK? ? OR TOUCHSTONE? OR TOUCH()STONE? ?)
S19	13328	S1:S3(3N) MASTER OR MODEL(1W) S1:S3
S20	821	S19(5N) S9:S11
S21	48	S13(20N) (S12 OR S20)
S22	24	S21 AND AC=US/PR
S23	24	S22 AND AY=(1970:2000)/PR
S24	46	S21 AND PY=1970:2000
S25	48	S23:S24
S26	48	IDPAT (sorted in duplicate/non-duplicate order)
S27	48	IDPAT (primary/non-duplicate records only)
S28	5064	(S8 OR S19) (15N) S4:S6
S29	222	S28(15N) S14
S30	3280	IC='G06F-017/20':IC='G06F-017/28'
S31	4	S29 AND S30
S32	8629	(S8 OR S19) (5N) S14
S33	4	S31(10N) S4:S6
S34	2282	S4:S6(5N) S14
S35	101	S34(10N) (S8 OR S19)
S36	105	S32(10N) S4:S6
S37	3	S35:S36 AND S30
S38	12	S35:S36(20N) S15:S18
S39	12	S37:S38 NOT (S31 OR S27)
S40	30680	S14(5N) (S7 OR MASTER OR MODEL)

S41	104	S40(10N)S4:S6
S42	2282	S14(5N)S4:S6
S43	125	S42(10N)(S7 OR MASTER OR MODEL)
S44	3	(S41 OR S43) AND S30
S45	185624	IC=G06F
S46	15	(S41 OR S43 OR S35:S36) AND S45
S47	12	(S44 OR S46) NOT (S31 OR S27 OR S39)
S48	980613	PROPORTION? ? OR PERCENT? OR RATIO OR RATIOS
S49	18846	S48(20N)(S8 OR S19)
S50	358	S49(20N)S4:S6
S51	6586	S48(20N)S4:S6
S52	339	S51(20N)(S8 OR S19)
S53	8	(S50 OR S52) AND S45
S54	304	S28(15N)S48
S55	7	S54 AND S45
S56	8	(S53 OR S55) NOT (S31 OR S27 OR S39 OR S47)

? t27/5,k/48

27/5,K/48 (Item 48 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00494820 **Image available**

A SYSTEM AND METHOD FOR THE DYNAMIC PRESENTATION OF THE CONTENTS OF A
PLURALITY OF DOCUMENTS FOR RAPID SKIMMING
SYSTEME ET PROCEDE SERVANT A EFFECTUER UNE PRESENTATION DYNAMIQUE D'UNE
PLURALITE DE DOCUMENTS AFIN DE LES SURVOLER RAPIDEMENT

Patent Applicant/Assignee:

APPLE COMPUTER INC,

Inventor(s):

BOGURAEV Branimir,
BELLAMY Rachel Katherine Emma,
WONG Yin Yin,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9926172 A1 19990527

Application: WO 98US24384 19981116 (PCT/WO US9824384)

Priority Application: US 97972935 19971118

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO
NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE
LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12621

English Abstract

A method and system for the dynamic presentation of the contents of a plurality of documents on a display is disclosed. The method and system comprises receiving a plurality of documents and providing a plurality of topically rich capsule overviews corresponding to the plurality of documents. The method and system also includes dynamically delivering document content encapsulated in the plurality of capsule overviews. In so doing, a system and method in accordance with the present invention can present thematic capsule overviews of the documents to users. A capsule overview is derived for the entire document, which will depict the core content of an average length article in a more accurate and representative manner than utilizing conventional techniques. The capsule overviews, delivered in a variety of dynamic presentation modes, allow the users to quickly get a sense of what a document is about, and decide whether they want to read it in more detail. If so, the system and method greatly facilitate the process of focused navigation into the parts of the document which may be of particular interest to the user. In a preferred embodiment, the capsule overviews include a containment hierarchy which relates the different information levels in a document together, and which includes a collection of highly salient topic stamps embedded in layers of progressively richer and more informative contextualized text fragments. The novel presentation metaphors which the invention utilizes are based on notions of temporal typography, in particular for exploiting the interactions between form and content.

French Abstract

Systeme et procede servant a effectuer la presentation dynamique des contenus d'une pluralite de documents sur un affichage. Ce systeme et ce procede consistent a recevoir une pluralite de documents et a creer une pluralite d'apercus capsules riches en sujets correspondant a la pluralite de documents. Ils consistent egalement a produire de facon dynamique le contenu du document capsule dans la pluralite d'apercus capsules. Ceci permet de presenter des apercus thematiques des documents a des utilisateurs. L'apercu capsule est constitue a partir du document entier et representera le contenu central d'un article de longueur moyenne d'une maniere plus precise et representative que les techniques classiques. Ces apercus capsules, produits dans une variete de modes de presentation dynamique, permettent a l'utilisateur de se faire rapidement une idee du sujet traite par le document et de decider s'il veut le lire avec plus de details. Si c'est le cas, ce systeme et ce procede facilitent considerablement le processus de navigation focalisee vers l'interieur des parties du documents susceptibles de presenter un interet special pour l'utilisateur. Dans un mode de realisation prefere, l'apercu capsule contient une hierarchie de retenue rapportant les differents niveaux d'informations d'un document, ainsi qu'un recueil d'objets thematiques extremement importants noyes dans des couches de fragments de texte contextualises de plus en plus riches et informatifs. Les nouvelles metaphores de presentation mises en application par l'invention sont basees sur des notions de typographie temporelle, dans le but, en particulier, d'exploiter les interactions entre forme et contenu.

Patent and Priority Information (Country, Number, Date):

Patent: ... 19990527

Fulltext Availability:

Detailed Description

Publication Year: 1999

Detailed Description

... maintaining information about the larger context.

All of the viewers assume an environment where incoming **documents** get **analyzed** to **capsule** overview level (See Figure 3); the results of the **analysis** are embedded into the **original text** by means of, for example, special purpose tags.

8A. TopicsTicker Viewer

TopicsTicker Viewer as shown...

?

? t31/5,k/4

31/5,K/4 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00551278 **Image available**

**DOCUMENT SEMANTIC ANALYSIS/SELECTION WITH KNOWLEDGE CREATIVITY CAPABILITY
ANALYSE/SELECTION SEMANTIQUE DE DOCUMENTS INCLUANT UNE CAPACITE DE
CREATIVITE DE CONNAISSANCE**

Patent Applicant/Assignee:

INVENTION MACHINE CORPORATION,

Inventor(s):

TSOURIKOV Valery M,

BATCHILO Leonid S,

SOVPEL Igor V,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200014651 A1 20000316 (WO 0014651)

Application: WO 99US19699 19990831 (PCT/WO US9919699)

Priority Application: US 9899641 19980909; US 99321804 19990527

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM
KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN
TD TG

Main International Patent Class: **G06F-017/28**

International Patent Class: **G06F-017/21 ; G06F-017/30**

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6402

English Abstract

A computer based software system and method for semantically processing a user entered natural language request to identify (16) and store (18) linguistic subject-action-object (SAO) structures, using such structures as key words/phrases (24) to search (30) local and Web-based databases for downloading (12) candidate natural language documents, semantically processing candidate document texts into candidate document SAO structures, and selecting and storing only relevant documents whose SAO structures include a match with a stored request SAO structure. Further features include analyzing relationships among relevant document SAO structures and creating new SAO structures (20) based on such relationships that may yield new knowledge concepts and ideas for display to the user and generating and displaying natural language summaries (22, 26) based on the relevant document SAO structures.

French Abstract

L'invention concerne un systeme informatique de logiciels et son procede, permettant de traiter semantiquement une demande effectuee dans la langue naturelle d'un utilisateur. Ledit procede consiste a identifier (16) et a stocker (18) des structures linguistiques sujet-action-objet (SAO), en utilisant ces structures comme des mots/phrases cles (24) pour chercher (30) des bases de donnees localement et sur le Web qui servent a telecharger (12) des documents en langue naturelle d'un candidat, en traitant semantiquement les textes des documents du candidat dans des

structures SAO des documents du candidat, et en selectionnant et stockant uniquement des documents importants dont des structures SAO comprennent une correspondance avec une structure SAO de demandes stockees. Ladite invention comprend d'autres caracteristiques telles que l'analyse des liens parmi des structures SAO de documents importants et la creation de nouvelles structures SAO (20) relatives a ces liens qui peuvent engendrer de nouveaux concepts de connaissances a presenter a l'utilisateur, et la creation et la presentation de resumes en langue naturelle (22, 26) elabores sur les structures SAO de documents importants.

Main International Patent Class: **G06F-017/28**

International Patent Class: **G06F-017/21** ...

Fulltext Availability:

Claims

Claim

... TEXTS) VERB/NOUN GROUP

PARSING

LOCAL DB SAO EXTRACTION

26 SAO NORMALIZER

co DB OF **SUMMARIES** OF 16

ORIGINAL DOCUMENTS

cn (NATURAL LANGUAGE TEXTS)

SAO PROCESSOR

COMPARISON

RE-ORGANIZATION

m 28 18

FILTERING

cn

I rl

m

m DB OF NEW CONCEPTS...

?

39/5,K/15 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00772903 **Image available**

CUT AND PASTE DOCUMENT SUMMARIZATION SYSTEM AND METHOD
CREATION DE RESUMES DE DOCUMENTS PAR COUPER-COLLER ET PROCEDE CORRESPONDANT
Patent Applicant/Assignee:

THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, 116th Street
and Broadway, New York, NY 10027, US, US (Residence), US (Nationality),
(For all designated states except: US)

Patent Applicant/Inventor:

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, US (Nationality), (Designated only for: US)

JING Hongyan, 521 West 112th Street, Apt. 73C, New York, NY 10025, US, US
(Residence), US (Nationality), (Designated only for: US)

Legal Representative:

TANG Henry, Baker & Botts LLP, 30 Rockefeller Plaza, New York, NY
10112-0228, US

Patent and Priority Information (Country, Number, Date):

Patent: ✓WO 200106408 A1 20010125 (WO 0106408)

Application: WO 2000US4505 20000222 (PCT/WO US0004505)

Priority Application: US 99120657 19990219

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/27

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6669

English Abstract

A summary of an input document is generated by extracting at least one sentence from the document and parsing the extracted sentences into components, such as in a parse tree (110). Sentence reduction processing is performed to mark components which can be removed from the parse trees (135). Sentence reduction can include context importance processing, probabilistic processing, and linguistic knowledge based processing, probabilistic processing includes identifying sentence combination operations and establishing rules for applying the sentence combination operations to mark the parse trees to merge at least two sentences (140). Sentence combination processing also provides a paste operation to operate on the marked components to effect the indicated removal and combination of sentence components, thereby generating summary sentences for the input document.

French Abstract

Selon cette invention, on genere un resume d'un document entrant en

extrayant au moins une phrase dudit document et en effectuant le passage par composants des phrases extraites, par analogie avec un arbre de passage (110). Le traitement par reduction de phrases s'effectue de maniere a marquer les composants pouvant etre retires des arbres de

passage (135). La reduction de phrases peut comprendre le traitement du contexte par importance, le traitement probabiliste et le traitement fonde sur les connaissances linguistiques. Le traitement par combinaison de phrases consiste a identifier les operations de combinaison de phrases et a etablir des regles pour appliquer les operations de combinaison de phrases afin de marquer les arbres de passage destines a faire fusionner au moins deux phrases (140). Le traitement par combinaison de phrases comprend aussi une operation de collage appliquee aux composants marques pour effectuer le retrait et la combinaison indiquees de composants d'une phrase, ce qui permet de generer des phrases de resume a partir du document d'entree.

Legal Status (Type, Date, Text)

Publication 20010125 A1 With international search report.

Examination 20010222 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-017/27

Fulltext Availability:

Detailed Description

Detailed Description

... decomposition module 185 generally operates to evaluate the human written summaries in the corpus 165, **compare** the **summary sentences** to the **original document**, determine if a **summary sentence** was generated by a cut and past operation and identify where the components of the...

?

? t47/5,k/1-7,10;t47/6/11

47/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01763877

Electronic casino gaming system with authentication and security
Authentifiziertes und gesichertes elektronisches Spielkasinosystem
Systeme de casino electronique securise et authentifie

PATENT ASSIGNEE:

IGT, (2015075), 9295 Prototype Drive, Reno, Nevada 89511, (US),
(Applicant designated States: all)

INVENTOR:

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Levinthal, Adam E., 956 Wilmington Way, Redwood City, CA 94062, (US)

LEGAL REPRESENTATIVE:

Korber, Martin, Dipl.-Phys. et al (88321), Mitscherlich & Partner
Patentanwalte Sonnenstrasse 33, 80331 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1441464 A1 040728 (Basic)
EP 1441464 A1 040728

APPLICATION (CC, No, Date): EP 2003010136 960617;

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 882339 (EP 96921653)

INTERNATIONAL PATENT CLASS: H04L-009/00; H04L-009/32; A63F-013/10;
A63F-013/00; G07F-017/32; **G06F-012/14**

CITED PATENTS (EP A): XP 41247 ; XP 296996 ; XP 751802

CITED REFERENCES (EP A):

GB 2121569 A

US 4727544 A

DAVIDA G I ET AL: "DEFENDING SYSTEMS AGAINST VIRUSES THROUGH
CRYPTOGRAPHIC AUTHENTICATION" PROCEEDINGS OF THE SYMPOSIUM ON SECURITY
AND PRIVACY. OAKLAND, MAY 1 - 3, 1989, WASHINGTON, IEEE COMP. SOC.
PRESS, US, 1 May 1989 (1989-05-01), pages 312-318, XP000041247 ISBN:
0-8186-1939-2

BAUSPIESS F ET AL: "REQUIREMENTS FOR CRYPTOGRAPHIC HASH FUNCTIONS"
COMPUTERS & SECURITY. INTERNATIONAL JOURNAL DEVOTED TO THE STUDY OF
TECHNICAL AND FINANCIAL ASPECTS OF COMPUTER SECURITY, ELSEVIER SCIENCE
PUBLISHERS. AMSTERDAM, NL, vol. 11, no. 5, 1 September 1992
(1992-09-01), pages 427-437, XP000296996 ISSN: 0167-4048

LEVINTHAL, A.; BARNETT, M.: "The Silicon Gaming Odyssey slot machine"
COMPCON '97. PROCEEDINGS, IEEE, 26 February 1997 (1997-02-26), pages
296-301, XP000751802 San Jose, CA, USA ISBN: 0-8186-7804-6;

ABSTRACT EP 1441464 A1

A casino gaming apparatus, comprising:

a casino game console; a video display unit; a first memory (13)
disposed in said casino game console; a second memory (18) comprising a
read/write memory, said second memory having gaming data stored therein;
and a processor (12) disposed in said casino game console and being
operatively coupled to said video display unit, said first memory (13)
and said second memory (18), said processor (12) causing said gaming data
to be checked based on a comparison of data generated by said processor
from said gaming data with data previously generated from known gaming
data, said processor utilizing a hash function in checking said gaming

data, and said processor (12) causing a remedial action to be taken based on said checking of said gaming data.

ABSTRACT WORD COUNT: 131

NOTE:

Figure number on first page: 5

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 040728 A1 Published application with search report

Examination: 040728 A1 Date of request for examination: 20030505

Application: 040728 A1 Published application with search report

Examination: 040728 A1 Date of request for examination: 20030505

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200431	702
SPEC A	(English)	200431	5993
Total word count - document A			6695
Total word count - document B			0
Total word count - documents A + B			6695

...INTERNATIONAL PATENT CLASS: G06F-012/14

...SPECIFICATION the message digest of the ROM contents is computed directly from the ROM using the **original** hash function. The computed **message digest** is compared with the **message digest** on file at the designated custodial location (typically in the casino itself). This procedure is...

47/5,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01368557

NUCLEOTIDE SEQUENCE INFORMATION, AND METHOD AND DEVICE FOR RECORDING INFORMATION ON SEQUENCE OF AMINO ACID

NUKLEOTIDSEQUENZINFORMATIONEN UND VERFAHREN UND VORRICHTUNG ZUM AUFZEICHNEN VON INFORMATIONEN BEZUGLICH DER AMINOSAURENSEQUENZ

INFORMATIONS RELATIVES A DES SEQUENCES NUCLEOTIDIQUES ET PROCEDE ET DISPOSITIF PERMETTANT D'ENREGISTRER DES INFORMATIONS RELATIVES A LA SEQUENCE D'UN ACIDE AMINE

PATENT ASSIGNEE:

Omori, Satoshi, (3914610), 11-7-627, Nishibori 4-chome, Saitama-shi, Saitama 338-0832, (JP), (Applicant designated States: all)

INVENTOR:

Omori, Satoshi, 11-7-627, Nishibori 4-chome, Saitama-shi, Saitama 338-0832, (JP)

LEGAL REPRESENTATIVE:

Franks, Robert Benjamin (74663), Franks & Co., 9 President Buildings Saville Street East, Sheffield South Yorkshire S4 7UQ, (GB)

PATENT (CC, No, Kind, Date): EP 1313225 A1 030521 (Basic)

WO 2001080431 011025

APPLICATION (CC, No, Date): EP 2001921886 010418; WO 2001JP3324 010418

PRIORITY (CC, No, Date): JP 2000117343 000419; JP 2000149122 000519

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H03M-007/30; G06F-019/00 ; G11B-020/10;

G11B-020/00; G11B-020/18; H03M-013/00; H03M-013/11; H03M-013/15

CITED PATENTS (WO A): JP 10151125 A ; JP 10272123 A

ABSTRACT EP 1313225 A1

A method and device for recording sequence information on nucleotides in nucleic acids or genes or on amino acids in proteins by as small amounts of data as possible. After two mathematical digests of two text data each representing the sequence of nucleotides are computed, it is checked whether the two sequences are equal by comparing the two mathematical digests. Then, each text data is converted into binary data using a conversion table, and the binary data is divided into plural converted data A(i,j) arranged in plural columns and rows. Then, syndromes C(j) (j=1,2,...) are computed by applying an operation to the converted data A(i,j) of each row in the arranged direction, and syndromes B1(i), B2(i) (i=1,2,...) are computed by applying operations to the converted data A(i,j) of each column in the non-arranged direction. The sequence of the nucleotides is represented approximately by the syndromes C(j) and B1(i), B2(i).

ABSTRACT WORD COUNT: 150

NOTE:

Figure number on first page: 0008

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 011219 A1 International application. (Art. 158(1))
Application: 011219 A1 International application entering European phase
Application: 030521 A1 Published application with search report
Examination: 030521 A1 Date of request for examination: 20021118
Search Report: 030521 A1 Date of drawing up and dispatch of supplementary:search report 20030331
Search Report: 030730 A1 Date of dispatch for correction to the search report: 20030613
Examination: 041103 A1 Date of dispatch of the first examination report: 20040921
Withdrawal: 050810 A1 Date application deemed withdrawn: 20041002

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200321	3098
SPEC A	(English)	200321	24176
Total word count - document A			27274
Total word count - document B			0
Total word count - documents A + B			27274

...INTERNATIONAL PATENT CLASS: G06F-019/00

...SPECIFICATION can assert (prove) that he is the first to read the sequence without disclosing the **original** text data. Moreover, by computing the **message digest** of the purchased **text** data and **comparing** the **message digest** with the disclosed **message digest**, a user can check whether the purchased data is the same as the original one...

47/5,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01154154

METHOD OF CREATING AN INSEPARABLE LINK BETWEEN AN ELECTRONIC DOCUMENT AND OLE OBJECTS

VERFAHREN ZUR HERSTELLUNG EINER UNLOSbaren VERKNUPFUNG ZWISCHEN EINEM

ELEKTRONISCHEN DOKUMENT UND OLE OBJEKTEN
PROCEDE DE CREATION D'UNE LIAISON INSEPARABLE ENTRE UN DOCUMENT
ELECTRONIQUE ET DES OBJETS OLE

PATENT ASSIGNEE:

Silanis Technology Inc., (2954931), Suite 450, 3333 Cote Vertu,
St-Laurent, Quebec H4R 2N1, (CA), (Proprietor designated states: all)

INVENTOR:

PETROGIANNIS, Tommy, 4560 Cumberland Avenue, Montreal, Quebec H4B 2L4,
(CA)
SILVESTER, Joseph, 282 Place des Cedres, Dollard des Ormeaux, Quebec H9G
1W1, (CA)

LEGAL REPRESENTATIVE:

Thevenet, Jean-Bruno et al (39781), Cabinet Beau de Lomenie 158, rue de
l'Universite, 75340 Paris Cedex 07, (FR)

PATENT (CC, No, Kind, Date): EP 1116110 A1 010718 (Basic)
EP 1116110 B1 030423
WO 2000019315 000406

APPLICATION (CC, No, Date): EP 99945803 990924; WO 99CA889 990924

PRIORITY (CC, No, Date): CA 2246095 980925

DESIGNATED STATES (Pub A): AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE;
IT; LI; LU; MC; NL; PT; SE; (Pub B): DE; FR; GB; IT; SE

INTERNATIONAL PATENT CLASS: **G06F-009/46**

CITED PATENTS (EP B): US 5606609 A; US 5680452 A

CITED PATENTS (WO A): XP 2025907

CITED REFERENCES (EP B):

WILLIAMS S ET AL: "THE COMPONENT OBJECT MODEL. THE FOUNDATION FOR OLE
SERVICES" DR. DOBB'S SPECIAL REPORT,XX,XX, vol. 19, no. 16, 21 December
1994 (1994-12-21), pages 14-22, XP002025907;

CITED REFERENCES (WO A):

WILLIAMS S ET AL: "THE COMPONENT OBJECT MODEL. THE FOUNDATION FOR OLE
SERVICES" DR. DOBB'S SPECIAL REPORT,XX,XX, vol. 19, no. 16, 21 December
1994 (1994-12-21), pages 14-22, XP002025907;

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 000531 A1 International application. (Art. 158(1))
Application: 000531 A1 International application entering European
phase
Application: 010718 A1 Published application with search report
Examination: 010718 A1 Date of request for examination: 20010417
Grant: 030423 B1 Granted patent
Change: 031126 B1 Legal representative(s) changed 20031008
Oppn None: 040414 B1 No opposition filed: 20040126

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200317	354
CLAIMS B	(German)	200317	309
CLAIMS B	(French)	200317	366
SPEC B	(English)	200317	2284
Total word count - document A			0
Total word count - document B			3313
Total word count - documents A + B			3313

INTERNATIONAL PATENT CLASS: **G06F-009/46**

...SPECIFICATION the results of the decryption and the integrity of the
document can be verified by **comparing** the decrypted **document digest**
and the **original document digest** . If both signator and integrity
are verified, the electronic chop is displayed; otherwise, the chop...

47/5,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01106210

Fair witness for electronic transactions

Unparteiischer Zeuge für elektronische Transaktionen

Temoin equitable pour transactions électroniques

PATENT ASSIGNEE:

SUN MICROSYSTEMS, INC., (1392737), 901 San Antonio Road, MS PAL01-521,
Palo Alto, California 94303, (US), (Applicant designated States: all)

INVENTOR:

Lipkin, Efrem, 1811 Ward Street, Berkeley, CA 94703, (US)

LEGAL REPRESENTATIVE:

Hanna, Peter William Derek et al (72341), Tomkins & Co., 5 Dartmouth Road
, Dublin 6, (IE)

PATENT (CC, No, Kind, Date): EP 969430 A1 000105 (Basic)

APPLICATION (CC, No, Date): EP 99202072 990626;

PRIORITY (CC, No, Date): US 107692 980630

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G07F-019/00; **G06F-017/60**

ABSTRACT EP 969430 A1

A fair witness (100) is provided to witness and record all or selected details of an electronic transaction. A transaction may involve multiple parties (120, 140) communicating via the Internet or other distributed communication channels. When one party (120) commences a transaction, the parties connect to the fair witness via trusted communication links (110, 130). One or more parties then pass all or selected details concerning the transaction. The details to be submitted to the fair witness are identified in accordance with a protocol under which the transaction is carried out. The fair witness reliably stores (106) the details for later use in resolving a dispute concerning the transaction. The fair witness may store entire communications (e.g., web pages), selected portions of communications, or message digests. Alternatively, the fair witness is located in the communication path between the parties and is thus able to automatically retrieve information and details to be recorded.

ABSTRACT WORD COUNT: 153

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Withdrawal: 010314 A1 Date application deemed withdrawn: 20000705

Application: 20000105 A1 Published application with search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200001	1373
SPEC A	(English)	200001	6453
Total word count - document A			7826
Total word count - document B			0
Total word count - documents A + B			7826

...INTERNATIONAL PATENT CLASS: **G06F-017/60**

...SPECIFICATION retain the original details. In the event of a dispute concerning the transaction, a new **message digest** is made from the **original** details and **compared** against the **message digest** (s)

provided to the fair witness.

Alternatively, the message digest comprises the result of a...

47/5,K/5 (Item 5 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00809356

Automatic method of generating feature probabilities for automatic
extracting summarization

Automatische Methode zur Erzeugung von Merkmalwahrscheinlichkeiten für
automatische Extraktionszusammenfassung

Methode automatique de generation de probabilites de caracteristiques de
texte pour l'extraction automatique de resumes

PATENT ASSIGNEE:

XEROX CORPORATION, (219783), Xerox Square, Rochester, New York 14644,
(US), (Proprietor designated states: all)

INVENTOR:

Kupiec, Julian M., 10079 Craft Drive, Cupertino, California 95014, (US)
Pedersen, Jan O., 3913 Bibbits Drive, Palo Alto, California 94303, (US)
Chen, Francine R., 975 Sherman Avenue, Menlo Park, California 94025, (US)
Brotsky, Daniel C., 1162 Colusa Avenue, Berkeley, California 94707, (US)
Putz, Steven B., 351 Rosemont Drive, Santa Clara, California 95051, (US)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
, Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 751470 A1 970102 (Basic)
EP 751470 B1 011219

APPLICATION (CC, No, Date): EP 96304778 960628;

PRIORITY (CC, No, Date): US 495865 950628

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

CITED PATENTS (EP B): US 5384703 A

CITED REFERENCES (EP B):

IBM TECHNICAL DISCLOSURE BULLETIN, vol. 33, no. 6A, November 1990, NEW
YORK, US, pages 338-339, XP002015802 ANONYMOUS: "Method for Automatic
Extraction of Relevant Sentences From Texts."

INFORMATION PROCESSING AND MANAGEMENT, vol. 26, no. 1, 1990, UK, pages
171-186, XP000605124 PAICE, D.: "Constructing Literature Abstracts by
Computer: Techniques and Prospects"

PATENT ABSTRACTS OF JAPAN vol. 015, no. 015 (P-1151), 11 January 1991 &
JP-A-02 257266 (TEREMATEIIKU KOKUSAI KENKYUSHO KK), 18 October 1990,

PROC. 18TH. ANNUAL INT. ACM SIGIR CONF. ON RESEARCH AND DEVELOPMENT IN
INFORMATION RETREIVAL, 9 - 13 July 1995, SEATTLE, WA, USA, pages 68-73,
XP000602689 KUPIEC J., ET AL.: "A Trainable Document Summariser";

ABSTRACT EP 751470 A1

A method of automatically generating feature probabilities that allow
later automatic generation of document extracts. The computer system
generates the probabilities by analyzing each document a document at a
time. First, the computer system designates one of the documents as a
selected document. Next, the computer system analyzes each sentence of
the selected document to determine the value of the paragraph feature and
the value of the uppercase feature. The computer system repeats this
effort for each document of the document corpus. Afterward, the number of
occurrences of each value of each feature is calculated and is used to
calculate feature value probabilities for all of the features.

ABSTRACT WORD COUNT: 109

NOTE:

Figure number on first page: 6

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change: 000503 A1 Legal representative(s) changed 20000315
Application: 970102 A1 Published application (A1with Search Report
;A2without Search Report)
Oppn None: 021211 B1 No opposition filed: 20020920
Examination: 000607 A1 Date of dispatch of the first examination
report: 20000425
Grant: 011219 B1 Granted patent
Examination: 970903 A1 Date of filing of request for examination:
970702

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	1329
CLAIMS B	(English)	200151	907
CLAIMS B	(German)	200151	861
CLAIMS B	(French)	200151	1037
SPEC A	(English)	EPAB97	10408
SPEC B	(English)	200151	10438
Total word count - document A			11739
Total word count - document B			13243
Total word count - documents A + B			24982

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION the selected summary sentence, whose match is to be identified. Next, processor 11 selects an **original sentence**, the selected **document** sentence, to **compare** to the selected **summary sentence**. Processor 11 then exits step 206, advances to step 208, and performs an additional task...

...SPECIFICATION the selected summary sentence, whose match is to be identified. Next, processor 11 selects an **original sentence**, the selected **document** sentence, to **compare** to the selected **summary sentence**. Processor 11 then exits step 206, advances to step 208, and performs an additional task...

47/5,K/6 (Item 6 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00809355

Automatic method of extracting summarization using feature probabilities

Automatische Methode zur Extraktionszusammenfassung durch Gebrauch von
Merkmal-Wahrscheinlichkeiten

Methode automatique pour l'extraction des abreges en utilisant les
probabilites caracteristiques du texte

PATENT ASSIGNEE:

XEROX CORPORATION, (219783), Xerox Square, Rochester, New York 14644,
(US), (Proprietor designated states: all)

INVENTOR:

Kupiec, Julian M., 10079 Craft Drive, Cupertino, California 95014, (US)
Pedersen, Jan O., 3913 Bibbits Drive, Palo Alto, California 94303, (US)
Chen, Francine R., 975 Sherman Avenue, Menlo Park, California 94025, (US)
Brotsky, Daniel C., 1162 Colusa Avenue, Berkeley, California 94707, (US)
Putz, Steven B., 351 Rosemont Drive, Santa Clara, California 95051, (US)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)

, Maximilianstrasse 58, 80538 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 751469 A1 970102 (Basic)
EP 751469 B1 020821
APPLICATION (CC, No, Date): EP 96304777 960628;
PRIORITY (CC, No, Date): US 495986 950628
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G06F-017/30
CITED PATENTS (EP B): EP 361464 A; US 5297027 A; US 5384703 A
CITED REFERENCES (EP B):

IBM TECHNICAL DISCLOSURE BULLETIN, vol. 33, no. 6A, November 1990, NEW YORK US, pages 338-339, XP002015759 ANON.: "Method for Automatic Extraction of Relevant Sentences from Texts"
INFORMATION PROCESSING AND MANAGEMENT, vol. 26, no. 1, 1990, UK, pages 171-186, XP002015760 PAICE C.D.: "Constructing Literature Abstracts by Computer: Techniques and Prospects"
EXPERT SYSTEMS FOR INFORMATION MANAGEMENT, vol. 1, no. 3, 1988, UK, pages 159-177, XP002015761 BLACK W.J. ET AL.: "A Practical Evaluation of Two Rule-based Automatic Abstracting Techniques"
18TH. INT. ACM SIGIR CONF. ON RESEARCH AND DEVELOPMENT IN INFORMATION RETRIEVAL, 9 - 13 July 1995, SEATTLE, WA, USA, pages 68 -73, XP000602689 KUPIEC J. ET AL.: "A Trainable Document Summarizer";

ABSTRACT EP 751469 A1

A method of automatically generating document extracts. The method makes use of feature value probabilities generated from a statistical analysis of manually generated summaries to extract the same set of sentences an expert might. The method is based upon an iterative approach. First, the computer system designates a sentence of the document as a selected sentence. Second, the computer system determine values for the selected sentence of each feature of a feature set. Third, the computer system increases a score for the selected sentence based upon the value of the feature for the selected sentence and upon the probability associated with that value. Fourth, after scoring all of the sentences of the document the computer system, the computer system selects a subset of the highest scoring sentences to be extracted.

ABSTRACT WORD COUNT: 131

NOTE:

Figure number on first page: 7

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 000607 A1 Date of dispatch of the first examination report: 20000425
Application: 970102 A1 Published application (A1with Search Report ;A2without Search Report)
Oppn None: 030813 B1 No opposition filed: 20030522
Grant: 020821 B1 Granted patent
Examination: 970903 A1 Date of filing of request for examination: 970702

Change: 991006 A1 Legal representative(s) changed 19990819

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	1067
CLAIMS B	(English)	200234	1734
CLAIMS B	(German)	200234	758
CLAIMS B	(French)	200234	930
SPEC A	(English)	EPAB97	10418
SPEC B	(English)	200234	10566
Total word count - document A			11486
Total word count - document B			13988
Total word count - documents A + B			25474

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION the selected summary sentence, whose match is to be identified. Next, processor 11 selects an **original sentence**, the selected **document** sentence, to **compare** to the selected **summary sentence**. Processor 11 then exits step 206, advances to step 208, and performs an additional task...

...SPECIFICATION the selected summary sentence, whose match is to be identified. Next, processor 11 selects an **original sentence**, the selected **document** sentence, to **compare** to the selected **summary sentence**. Processor 11 then exits step 206, advances to step 208, and performs an additional task...

47/5,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00727656

Method and apparatus for enhancing software security and distributing software

Verfahren und Vorrichtung zur Verbesserung der Softwaresicherheit und zur Software-Verteilung

Procede et dispositif pour ameliorer la surete de logiciel et pour la distribution de logiciel

PATENT ASSIGNEE:

SUN MICROSYSTEMS, INC., (1392730), 2550 Garcia Avenue, Mountain View, CA 94043, (US), (Proprietor designated states: all)

INVENTOR:

Chang, Sheue-Ling, 22345 Regnart Road, Cupertino, California 95014, (US)
Gosling, James, P.O. Box 620509, Woodside, California 94062, (US)

LEGAL REPRESENTATIVE:

Wombwell, Francis et al (46021), Potts, Kerr & Co. 15, Hamilton Square, Birkenhead Merseyside CH41 6BR, (GB)

PATENT (CC, No, Kind, Date): EP 686906 A2 951213 (Basic)
EP 686906 A3 970806
EP 686906 B1 050518

APPLICATION (CC, No, Date): EP 95303720 950531;

PRIORITY (CC, No, Date): US 258244 940610

DESIGNATED STATES: DE; FR; GB; NL; SE

INTERNATIONAL PATENT CLASS: G06F-001/00 ; H04L-009/32

CITED PATENTS (EP B): EP 328232 A

CITED REFERENCES (EP B):

COMPUTERS & SECURITY INTERNATIONAL JOURNAL DEVOTED TO THE STUDY OF
TECHNICAL AND FINANCIAL ASPECTS OF COMPUTER SECURITY., vol. 11, no. 8,
December 1992, OXFORD GB, pages 747-752, XP000332279 HARN ET AL.: "A
software authentication system for information integrity"

1994 IEEE NETWORK OPERATIONS AND MANAGEMENT SYMPOSIUM RECORD, vol. 2, 14
- 17 February 1994, NEW YORK US, pages 486-496, XP000452345 ROZENBLIT,
M.: "Secure software distribution";

ABSTRACT EP 686906 A2

Source code to be protected, a software application writer's private key, along with an application writer's license provided to the first computer. The application writer's license includes identifying information such as the application writer's name as well as the application writer's public key. A compiler program executed by the first computer compiles the source code into binary code, and computes a

message digest for the binary code. The first computer then encrypts the message digest using the application writer's private key, such that the encrypted message digest is defined as a digital "signature" of the application writer. A software passport is then generated which includes the application writer's digital signature, the application writer's license and the binary code. The software passport is then distributed to a user using any number of software distribution models known in the industry. A user, upon receipt of the software passport, loads the passport into a computer which determines whether the software passport includes the application writer's license and digital signature. In the event that the software passport does not include the application writer's license, or the application writer's digital signature, then the user's computer system discards the software passport and does not execute the binary code. As an additional security step, the user's computer computes a second message digest for the software passport and compares it to the first message digest, such that if the first and second message digests are not equal, the software passport is also rejected by the user's computer and the code is not executed. If the first and second message digests are equal, the user's computer extracts the application writer's public key from the application writer's license for verification. The application writer's digital signature is decrypted using the application writer's public key. The user's computer then compares a message digest of the binary code to be executed, with the decrypted application writer's digital signature, such that if they are equal, the user's computer executes the binary code. (see image in original document)

ABSTRACT WORD COUNT: 335

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 020102 A2 Date of dispatch of the first examination report: 20011116
 Application: 951213 A2 Published application (A1with Search Report ;A2without Search Report)
 Grant: 050518 B1 Granted patent
 Change: 041222 A2 Inventor information changed: 20041104
 Change: 970528 A2 Obligatory supplementary classification (change)
 Search Report: 970806 A3 Separate publication of the European or International search report
 Examination: 980401 A2 Date of filing of request for examination: 980128

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1352
CLAIMS B	(English)	200520	1127
CLAIMS B	(German)	200520	1084
CLAIMS B	(French)	200520	1343
SPEC A	(English)	EPAB95	5043
SPEC B	(English)	200520	4630
Total word count - document A			6396
Total word count - document B			8184
Total word count - documents A + B			14580

INTERNATIONAL PATENT CLASS: G06F-001/00 ...

...SPECIFICATION the message digest of the application license 52 in the passport 50,

2. recovering the original message digest , and

3. **comparing** the old digest with the newly computed digest.
The passport 50 contains a valid application...

...50. The application writer's digital signature may then be verified by:

1. recomputing the **message digest** of the passport 50,
 2. recovering the **original message digest**, and
 3. **comparing** the old digest with the new digest.
- The signature is valid if the two message...

...SPECIFICATION the message digest of the application license 52 in the passport 50,

2. recovering the **original message digest**, and
 3. **comparing** the old digest with the newly computed digest.
- The passport 50 contains a valid application...

...50. The application writer's digital signature may then be verified by:

1. recomputing the **message digest** of the code,
 2. recovering the **original message digest**, and
 3. **comparing** the old digest with the new digest.
- The signature is valid if the two message...

47/5,K/10 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00748732 **Image available**

SYSTEM AND METHOD FOR DOCUMENT-DRIVEN PROCESSING OF DIGITALLY-SIGNED ELECTRONIC DOCUMENTS

SYSTEME ET PROCEDE DE TRAITEMENT, COMMANDE PAR DOCUMENTS, DE DOCUMENTS ELECTRONIQUES A SIGNATURE NUMERIQUE

Patent Applicant/Assignee:

ILUMIN CORPORATION, Suite 3000, Building D, 1506 N. Technology Way, Orem,
UT 84097, US, US (Residence), US (Nationality)

Inventor(s):

BROWN Bruce E, 1684 North Sage Hen Road, Orem, UT 84097, US
ISRAELSEN D Brent, 1426 North Grand View, Provo, UT 84604, US

Legal Representative:

RAUBVOGEL Amir H, Fenwick & West LLP, Two Palo Alto Square, Palo Alto, CA
94306, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200062143 A1 20001019 (WO 0062143)

Application: WO 2000US9271 20000407 (PCT/WO US0009271)

Priority Application: US 99129011 19990413; US 99335443 19990617

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-001/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 23759

English Abstract

A computer-implemented method for digitally signing an electronic document by a plurality of signers includes determining a signing role of each signer; identifying a to-be-signed portion of the document corresponding to the signing role of each signer; receiving an indication from each signer to digitally sign the document; and applying the digital signature of each signer to the corresponding to-be-signed portion in response to the indication from each signer. A computer-implemented method for processing electronic documents includes receiving a document at a document processing station; reading a processing instruction from a processing portion of the document; identifying a processing service within the document processing station for executing the processing instruction; executing the processing instruction at the document processing station using the identified processing service; and applying a digital signature of the document processing station to the document after the processing instruction is executed.

French Abstract

L'invention concerne un procede informatique de signature numerique d'un document electronique, par plusieurs signataires, ce procede consistant a determiner un role de signature pour chaque signataire, a identifier une portion a signer du document correspondant au role de signature de chaque signataire, a recevoir une indication, provenant de chaque signataire, pour la signature numerique du document, et a appliquer la signature numerique de chaque signataire sur la portion a signer correspondante en reponse a l'indication provenant de chaque signataire. L'invention concerne un procede informatique destine a traiter des documents electroniques et consistant a recevoir un document au niveau d'un poste de traitement de documents, a lire une instruction de traitement a partir d'une portion de traitement du document, a identifier, dans le poste de traitement de documents, un service de traitement de documents destine a l'execution de l'instruction de traitement, a faire executer, par ce service de traitement identifie, l'instruction de traitement au niveau du poste de traitement de documents, et a appliquer sur le document une signature numerique du poste de traitement de documents, apres execution de l'instruction de traitement.

Legal Status (Type, Date, Text)

Publication 20001019 A1 With international search report.

Examination 20001228 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-001/00

Fulltext Availability:

Detailed Description

Detailed Description

... encrypted the message digest with the corresponding private key. Thereafter, the recipient calculates a new **message digest** for the **message** and **compares** it with the **original message digest**. If the **digests** match, the **message** was not tampered with during transn-dssion.

In the legal and

56/5,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01624252

Summarization apparatus and method
Vorrichtung und Verfahren zur Zusammenfassung
Dispositif et procede pour faire des resumes
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15-19 Kingsway, London WC2B 6UD, (GB)

PATENT (CC, No, Kind, Date): EP 1338983 A2 030827 (Basic)
EP 1338983 A3 031217

APPLICATION (CC, No, Date): EP 2003008037 980116;

PRIORITY (CC, No, Date): JP 976777 970117

DESIGNATED STATES: DE; FR; GB

RELATED PARENT NUMBER(S) - PN (AN):

EP 855660 (EP 98300322)

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 1338983 A2

A document summarization apparatus or method summarizes an electronic document written in a natural language, and generates an appropriate summary depending on a user's knowledge. The document summarization apparatus according to the present invention includes, for example, a summary readability improvement unit, and a summary generation unit. In the document to be summarized, the summary readability improvement unit distinguishes user known information already known to a user, and information known through an access log regarded as already known to a user based on a document previously presented to the user when a summary is generated, from other information than these two types of information, and selects the important portions of the document to be summarized. The summary generation unit generates the summary of the document to be summarized based on the selection result of the summary readability improvement unit. Thus, a summary can be generated depending on the knowledge level of a user.

ABSTRACT WORD COUNT: 154

NOTE:

Figure number on first page: 2

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 030827 A2 Published application without search report
Search Report: 031217 A3 Separate publication of the search report
Examination: 040811 A2 Date of request for examination: 20040609
Examination: 040811 A2 Date of request for examination: 20040609
Examination: 041215 A2 Date of dispatch of the first examination
report: 20041027

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200335	1478
SPEC A	(English)	200335	21974
Total word count - document A			23452
Total word count - document B			0

Total word count - documents A + B 23452

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION document in an embodiment of the invention. According to the conventional algorithm of generating a **summary**, the number of **sentences** or characters to be included in a summary, or the **ratio** of the length of the **summary** to the **original sentence** are provided as parameters in many cases. However, in the present embodiment, a summary having...

? t56/5,k/3,5;t56/6/6

56/5,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00942334

Summarization apparatus and method

Vorrichtung und Verfahren zur Zusammenfassung

Dispositif et procede pour faire des resumes

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PATENT (CC, No, Kind, Date): EP 855660 A2 980729 (Basic)

EP 855660 A3 980819

EP 855660 B1 040331

APPLICATION (CC, No, Date): EP 98300322 980116;

PRIORITY (CC, No, Date): JP 976777 970117

DESIGNATED STATES: DE; FR; GB

RELATED DIVISIONAL NUMBER(S) - PN (AN):

EP 1338983 (EP 2003008037)

INTERNATIONAL PATENT CLASS: G06F-017/30

CITED PATENTS (EP B): EP 631245 A; WO 96/23265 A

CITED REFERENCES (EP B):

PATENT ABSTRACTS OF JAPAN vol. 095, no. 008, 29 September 1995 & JP 07
129605 A (TOSHIBA CORP), 19 May 1995,

BALL T ET AL: "AN INTERNET DIFFERENCE ENGINE AND ITS APPLICATIONS" DIGEST
OF PAPERS OF COMPCON (COMPUTER SOCIETY CONFERENCE) 1996, TECHNOLOGIES
FOR THE INFORMATION SUPERHIGHWAY SANTA CLARA, FEB. 25 - 28, 1996, no.
CONF. 41, 25 February 1996, INSTITUTE OF ELECTRICAL AND ELECTRONICS
ENGINEERS, pages 71-76, XP000628466

PAZZANI M ET AL: "LEARNING FROM HOTLISTS AND COLDLISTS: TOWARDS A WWW
INFORMATION FILTERING AND SEEKING AGENT" PROCEEDINGS. INTERNATIONAL
CONFERENCE ON TOOLS WITH ARTIFICIAL INTELLIGENCE, 1 January 1995, pages
492-495, XP000567438;

ABSTRACT EP 855660 A3

A document summarization apparatus or method summarizes an electronic document written in a natural language, and generates an appropriate summary depending on user's focus and user's knowledge. The document summarization apparatus according to the present invention includes, for example, a focused information relevant portion extraction unit, a summary readability improvement unit, and a summary generation unit. The focused information relevant portion extraction unit extracts a portion related to two types of focused information in a document to be summarized based on the two types of focused information, that is, user-focused information as information focused by a user who uses a summary, and author-focused information as information emphasized by an author of the document to be summarized. In the document to be summarized, the summary readability improvement unit distinguishes user known information already known to a user, and information known through an access log regarded as already known to a user based on a document previously presented to the user when a summary is generated, from other information than these two types of information, and selects an important

portion in the document to be summarized. The summary generation unit generates the summary of the document to be summarized based on the selection result of the summary readability improvement unit. Thus, a summary can be generated with both user-focused information and author-focused information can be included depending on the knowledge level of a user.

ABSTRACT WORD COUNT: 233

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 021120 A2 Date of dispatch of the first examination report: 20021007
Application: 980729 A2 Published application (A1with Search Report ;A2without Search Report)
Oppn None: 050323 B1 No opposition filed: 20050104
Change: 030604 A2 Application number of divisional application (Article 76) changed: 20030416
Grant: 040331 B1 Granted patent
Search Report: 980819 A3 Separate publication of the European or International search report
Examination: 990331 A2 Date of filing of request for examination: 990201
Change: 990506 A2 Designated Contracting States (change)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199831	2218
CLAIMS B	(English)	200414	1263
CLAIMS B	(German)	200414	1410
CLAIMS B	(French)	200414	1474
SPEC A	(English)	199831	21132
SPEC B	(English)	200414	21782
Total word count - document A			23354
Total word count - document B			25929
Total word count - documents A + B			49283

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION a document according to the present invention. According to the conventional algorithm of generating a **summary**, the number of **sentences** or characters to be included in a summary, or the **ratio** of the length of the **summary** to the **original sentence** are provided as parameters in many cases. According to the present invention, a summary having...

...SPECIFICATION a document according to the present invention. According to the conventional algorithm of generating a **summary**, the number of **sentences** or characters to be included in a summary, or the **ratio** of the length of the **summary** to the **original sentence** are provided as parameters in many cases. According to the present invention, a summary having...

56/5,K/5 (Item 5 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00626712

Document detection system with improved document detection efficiency
Dokumentenerkennungssystem mit verbesserter Wirksamkeit der

Dokumentenerkennung
Systeme de detection de documents avec une efficacite de detection de
documents amelioree

PATENT ASSIGNEE:

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Takeda, Kimihito, 2277-3, Kuno, Odawara-shi, Kanagawa-ken, (JP)

Ito, Etsuo, 1632-29, Kuge, Kumagaya-shi, Saitama-ken, (JP)

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Hoffmann Eitle, Patent- und Rechtsanwälte, Arabellastrasse 4, 81925
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PATENT (CC, No, Kind, Date): EP 610760 A2 940817 (Basic)

EP 610760 A3 940928

EP 610760 B1 030502

APPLICATION (CC, No, Date): EP 94101316 940128;

PRIORITY (CC, No, Date): JP 9312561 930128; JP 9356703 930317; JP 93250999
930914

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: **G06F-017/30**

CITED PATENTS (EP B): EP 361464 A

CITED REFERENCES (EP B):

11TH INTERNATIONAL CONFERENCE ON RESEARCH & DEVELOPMENT ON INFORMATION
RETRIEVAL, 13 June 1988, GRENOBLE, FRANCE pages 85 - 99 P. JACOBS ET AL
: 'Natural Language Techniques for Intelligent Retrieval'

INFORMATION PROCESSING & MANAGEMENT, vol.26, no.1, 1990, GB pages 111 -
134 T. SEMBOK ET AL 'SILOL: A simple logocal-linguistic document
retrieval system'

14TH ACM/SIGIR CONFERENCE ON RESEARCH & DEVELOPMENT IN INFORMATION
RETRIEVAL, 13 October 1991, CHICAGO, US pages 270 - 279 E. WENDLANDT ET
AL : 'Incorporating a semantic analysis into a document retrieval
strategy'

IBM TECHNICAL DISCLOSURE BULLETIN., vol.34, no.1, June 1991, NEW YORK US
pages 403 - 405 'Intelligent document retrieval';

ABSTRACT EP 610760 A2

A document detection system capable of detecting a desired document
from a large number of documents easily and accurately in which the user
can make a judgement concerning the appropriateness of the detection
result quickly. In the system, those documents which contain a semantic
structure of a detection command containing natural language expressions
entered by a user are detected. Also, the keywords of each document can
be extracted from the summary of each document and those documents whose
keywords match with detection keywords specified by a user can be
detected. Also, the summary of each detected document can be
automatically generated according to text structures of each detected
document and displayed along with the detected document itself. Also, the
detection processing can be carried out with respect to the summaries of
the documents instead of the documents themselves.

ABSTRACT WORD COUNT: 140

NOTE:

Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):

Change: 030502 A2 International Patent Classification changed:
20030310
Application: 940817 A2 Published application (A1with Search Report
;A2without Search Report)
Oppn None: 040421 B1 No opposition filed: 20040203
Grant: 030502 B1 Granted patent
Examination: 940817 A2 Date of filing of request for examination:
940128
Search Report: 940928 A3 Separate publication of the European or
International search report
Examination: 980204 A2 Date of despatch of first examination report:
971223

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	1780
CLAIMS B	(English)	200318	222
CLAIMS B	(German)	200318	172
CLAIMS B	(French)	200318	275
SPEC A	(English)	EPABF2	32015
SPEC B	(English)	200318	31920
Total word count - document A			33801
Total word count - document B			32589
Total word count - documents A + B			66390

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION chapter, and character string search. For example, by selecting the next page button, the displayed **content** of the **summary** and the **original document** as shown in Figs. 49 and 50 can be changed to those shown in Figs...

...at the step 5405, the summary display pointer is shifted backward for a prescribed amount **proportional** to one screen display size. Here, the summary display pointer is shifted for a prescribed amount **proportional** to one screen display size such that the user can set up the size of...

...at the step 5407, the summary display pointer is shifted forward for a prescribed amount **proportional** to one screen display size. When it is judged that the bottom button has been...5403, 5405, 5407, 5409, 5411, 5413, or 5420, next at the step 5414, the displayed **content** of the **summary** is changed according to the shifted summary display pointer.

Then, the **sentence** number in the **original document** registered at a position pointed by the summary display pointer is taken out at the... 5):

$$P2 = C1 \quad Q3 \quad (5)$$

where C1 is a prescribed constant.

Then, a number of **summary sentences** R in the chapter/section of the cursor position in the modified summary is obtained at the step 9604, a **ratio** S of the number of the **summary sentences** R with respect to a total number of sentences in the chapter/section of the cursor position in the **original document** is obtained at the step 9605, and a set of Q3 used at the step...be noted here that this operation of Fig. 96 may be modified to replace the **ratio** S of the number of **summary sentences** R in the modified summary with respect to the total number of **sentences** in the **original document** by a **ratio** of the number of words in the modified summary with respect to the total number of words in the

original document , or by a **ratio** of the number of characters in the modified summary with respect to the total number of characters in the **original document** .

It is also to be noted that, in the operation of fig. 96 described above...

...238 is provided with a buffer for storing a compression rate Q4, a number of **summary sentences** R4 in the chapter/section of the cursor position in the displayed summary, a **ratio** S4 of the number of the **summary sentences** R4 with respect to a total number of sentences in the chapter/section of the cursor position in the **original document** , and a list L2 of the sentence numbers of the summary sentences in the chapter...

...the cursor position in the detailed summary is obtained at the step 9709, and the **ratio** S4 of the number of the **summary sentences** R4 with respect to a total number of sentences in the chapter/section of the cursor position in the **original document** is obtained at the step 9710.

Next, the number of **summary sentences** R4 and the **ratio** S4 for the chapter/section of the cursor position stored in the buffer are displayed ...the cursor position in the simplified summary is obtained at the step 9808, and the **ratio** S4 of the number of the **summary sentences** R4 with respect to a total number of sentences in the chapter/section of the cursor position in the **original document** is obtained at the step 9809.

Next, the number of **summary sentences** R4 and the **ratio** S4 for the chapter/section of the cursor position stored in the buffer are displayed ...

...rate Q4 is set to the initial value at the step 9904, the number of **summary sentences** R4 is set to the total number of sentences in the chapter/section of the cursor position in the **original document** at the step 9905, and the **ratio** S is set to one at the step 9906.

Finally, the compression rate Q4, the number of **summary sentences** R4, and the **ratio** S4 for the chapter/section of the cursor position obtained at the steps 9904, 9905...

...SPECIFICATION chapter, and character string search. For example, by selecting the next page button, the displayed **content** of the **summary** and the **original document** as shown in Figs. 49 and 50 can be changed to those shown in Figs...

...at the step 5405, the summary display pointer is shifted backward for a prescribed amount **proportional** to one screen display size. Here, the summary display pointer is shifted for a prescribed amount **proportional** to one screen display size such that the user can set up the size of...

...at the step 5407, the summary display pointer is shifted forward for a prescribed amount **proportional** to one screen display size. When it is judged that the bottom button has been...

...5403, 5405, 5407, 5409, 5411, 5413, or 5420, next at the step 5414, the displayed **content** of the **summary** is changed according to the shifted summary display pointer.

Then, the **sentence** number in the **original document** registered at ...to the following formula (5): where C1 is a prescribed constant.

Then, a number of **summary sentences** R in the chapter/section of the cursor position in the modified summary is obtained at the step 9604, a **ratio** S of the number of the **summary sentences** R with respect to a total number of sentences in the chapter/section of the cursor position

in the **original document** is obtained at the step 9605, and a set of Q3 used at the step...be noted here that this operation of Fig. 96 may be modified to replace the **ratio S** of the number of **summary sentences R** in the modified summary with respect to the total number of **sentences** in the **original document** by a **ratio** of the number of words in the modified summary with respect to the total number of words in the **original document**, or by a **ratio** of the number of characters in the modified summary with respect to the total number of characters in the **original document**.

It is also to be noted that, in the operation of fig. 96 described above...

...238 is provided with a buffer for storing a compression rate Q4, a number of **summary sentences R4** in the chapter/section of the cursor position in the displayed summary, a **ratio S4** of the number of the **summary sentences R4** with respect to a total number of sentences in the chapter/section of the cursor position in the **original document**, and a list L2 of the sentence numbers of the summary sentences in the chapter...the cursor position in the detailed summary is obtained at the step 9709, and the **ratio S4** of the number of the **summary sentences R4** with respect to a total number of sentences in the chapter/section of the cursor position in the **original document** is obtained at the step 9710.

Next, the number of **summary sentences R4** and the **ratio S4** for the chapter/section of the cursor position stored in the buffer are displayed ...the cursor position in the simplified summary is obtained at the step 9808, and the **ratio S4** of the number of the **summary sentences R4** with respect to a total number of sentences in the chapter/section of the cursor position in the **original document** is obtained at the step 9809.

Next, the number of **summary sentences R4** and the **ratio S4** for the chapter/section of the cursor position stored in the buffer are displayed ...

...rate Q4 is set to the initial value at the step 9904, the number of **summary sentences R4** is set to the total number of sentences in the chapter/section of the cursor position in the **original document** at the step 9905, and the **ratio S** is set to one at the step 9906.

Finally, the compression rate Q4, the number of **summary sentences R4**, and the **ratio S4** for the chapter/section of the cursor position obtained at the steps 9904, 9905...